

&lt;120&gt; Mammalian Cytokines; Related Reagents and Methods

<140>

<260> 9

<010> 1

<011> 468

&lt;012&gt; DNA

(213) primate

420 .

4021\ misc feature

5.12 (301)

4.3. nucleotide may be A, C, G, or T.

0.

0.11 - CDS

4.22 · (20) .. (466)

4220.

0221> mat peptide

(222) (119) .. (466)

• • • • •

gta ggg ctg gtg tta act tac gac ttc act aac tgt gac ttt gag aag 148  
Val Gly Leu Val Leu Thr Tyr Asp Phe Thr Asn Cys Asp Phe Glu Lys  
-5 -1 1 5 10

att aaa gca gcc tat ctc agt act att tot aaa gac ctg att aca tat 196  
Ile Lys Ala Ala Tyr Leu Ser Thr Ile Ser Lys Asp Leu Ile Thr Tyr  
15 20 25

atg agt ggg acc aaa agt acc gag ttc aac aac acc gtc tct tgt agc 244  
Met Ser Gly Thr Lys Ser Thr Glu Phe Asn Asn Thr Val Ser Cys Ser  
30 35 40

aat cgg cca cat tgc ctt act gaa atc cag agc cta acc ttc aat ccc 292  
Asn Arg Pro His Cys Leu Thr Glu Ile Gln Ser Leu Thr Phe Asn Pro  
45 50 55

aac cgc cgn gtg cgg tgc ctc gcc aaa gaa atg ttc gcc atg aaa act 340  
Asn Arg Xaa Val Arg Ser Leu Ala Lys Glu Met Phe Ala Met Lys Thr  
60 65 70

aag gct gcc tta gct atc tgg tgc cca ggc tat tgc gaa act cag ata 388  
Lys Ala Ala Leu Ala Ile Trp Cys Pro Gly Tyr Ser Glu Thr Gln Ile  
75 80 85 90

aat gct act cag gca atg aag aag agg aga aaa agg aaa gtc aca acc 436  
Asn Ala Thr Gln Ala Met Lys Lys Arg Arg Lys Arg Lys Val Thr Thr  
95 100 105

aat aaa tgt ctg gaa caa gtg tca caa tta aa 468  
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Thr Tyr Asp Ile Thr Asn Cys Asp Phe Glu Lys Ile Lys Ala Ala Tyr  
-1 1 5 10 15

Ser Leu Ala Lys Glu Met Phe Ala Met Lys Thr Lys Ala Ala Leu Ala  
65 70 75

Ile Trp Cys Pro Gly Tyr Ser Glu Thr Gln Ile Asn Ala Thr Gln Ala  
80 85 90 95  
Met Lys Lys Arg Arg Lys Arg Lys Val Thr Thr Asn Lys Cys Leu Glu  
100 105 110

Gln Val Ser Gln Leu  
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atc ttc atc tta caa ctt gta ggg ctg gtg tta act tac gac ttc act 96  
Ile Phe Ile Leu Gln Leu Val Gly Leu Val Leu Thr Tyr Asp Phe Thr  
-10 -5 -1 1  
aac tgt gac ttt gag aag att aaa gca gcc tat ctc agt act att tct 144  
Asn Cys Asp Phe Glu Lys Ile Lys Ala Ala Tyr Leu Ser Thr Ile Ser  
5 10 15 20  
aaa gac ctg att aca tat atg agt ggg acc aaa agt acc gag ttc aac 192  
Lys Asp Leu Ile Thr Tyr Met Ser Gly Thr Lys Ser Thr Glu Phe Asn  
25 30 35  
aac acc gtc tct tgt agc aat cgg cca cat tgc ctt act gaa atc cag 240  
Asn Thr Val Ser Cys Ser Asn Arg Pro His Cys Leu Thr Glu Ile Gln  
40 45 50  
agc cta acc ttc aat cca acc gac ggc tgc ggc tgc ctc gac aaa gag 288  
Ser Leu Thr Phe Asn Pro Thr Ala Gly Cys Ala Ser Leu Ala Lys Glu

tat tgc gaa aat ttc ata att gtt att ggc ggc att ggc ggc ggc ggc 336  
Met Thr Glu Asn Thr Ala Ile Val Val Val Val Val Val Val Val Val

aaa agg aaa gtc aca acc aat aaa tgt ctg gaa caa gtg tca caa tta 432  
 Lys Arg Lys Val Thr Thr Asn Lys Cys Leu Glu Gln Val Ser Gln Leu  
 105 110 115

caa gga ttg tgg cgt cgc ttc aat cga cct tta ctg aaa caa cag taa 480  
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 5 10 15 20

Lys Asp Leu Ile Thr Tyr Met Ser Gly Thr Lys Ser Thr Glu Phe Asn  
 25 30 35

Asn Thr Val Ser Cys Ser Asn Arg Pro His Cys Leu Thr Glu Ile Gln  
 40 45 50

Ser Leu Thr Phe Asn Pro Thr Ala Gly Cys Ala Ser Leu Ala Lys Glu  
 55 60 65

Met Phe Ala Met Lys Thr Lys Ala Ala Leu Ala Ile Trp Cys Pro Gly  
 70 75 80

Tyr Ser Glu Thr Gln Ile Asn Ala Thr Gln Ala Met Lys Lys Arg Arg  
 85 90 95 100

Lys Arg Lys Val Thr Thr Asn Lys Cys Leu Glu Gln Val Ser Gln Leu  
 105 110 115

Gln Gly Leu Trp Arg Arg Phe Asn Arg Pro Leu Leu Lys Gln Gln  
 120 125 130

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130 135 140

Glu Gln Lys Lys Gln Asn Asp Leu Cys Phe Leu Lys Ile Leu Leu Gln  
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Lys Ile Lys Thr Cys Trp Asn Lys Ile Leu Arg Gly Ile Lys Glu His  
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Asp Gly Lys Gln Tyr Glu Ser Val Leu Met Val Ser Ile Asp Gln Leu  
35 40 45

Leu Asp Ser Met Lys Glu Ile Gly Ser Asn Cys Leu Asn Asn Glu Phe  
50 55 60

Asn Phe Phe Lys Arg His Ile Cys Asp Ala Asn Lys Glu Gly Met Phe  
65 70 75 80

Leu Phe Arg Ala Ala Arg Lys Leu Arg Gln Phe Leu Lys Met Asn Ser  
85 90 95

Thr Gly Asp Phe Asp Leu His Leu Leu Lys Val Ser Glu Gly Thr Thr  
100 105 110

Ile Leu Leu Asn Cys Thr Gly Gln Val Lys Gly Arg Lys Pro Ala Ala  
115 120 125

Leu Gly Glu Ala Gln Pro Thr Lys Ser Leu Gln Glu Asn Lys Ser Leu  
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Glu Gly Lys Ala Tyr Glu Ser Val Leu Met Ile Ser Ile Asp Glu Leu  
35 40 45  
Asp Lys Met Thr Gly Thr Asp Ser Asn Cys Pro Asn Asn Glu Pro Asn  
50 55 60  
Phe Phe Arg Lys His Val Cys Asp Asp Thr Lys Glu Ala Ala Phe Leu  
65 70 75 80  
Asn Arg Ala Ala Arg Lys Leu Lys Gln Phe Leu Lys Met Asn Ile Ser  
85 90 95  
Glu Glu Phe Asn Val His Leu Leu Thr Val Ser Gln Gly Thr Gln Thr  
100 105 110  
Leu Val Asn Cys Thr Ser Lys Glu Glu Lys Asn Val Lys Glu Gln Lys  
115 120 125  
Lys Asn Asp Ala Cys Phe Leu Lys Arg Leu Leu Arg Glu Ile Lys Thr  
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Cys Trp Asn Lys Ile Leu Lys Gly Ser Ile  
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Arg Lys Met Thr Gly Thr Arg Ser Arg Cys Pro Asn Asn Gln Arg Asn

Phe Phe Lys Lys His Leu Cys Asp Asp Thr Lys Glu Ala Ala Phe Leu  
65 70 75 80

Asn Arg Ala Ala Arg Lys Leu Arg Gln Phe Leu Lys Met Asn Ile Ser  
85 90 95

Glu Glu Phe Asn Asp His Leu Leu Arg Val Ser Asp Gly Thr Gln Thr  
100 105 110

Leu Val Asn Cys Thr Ser Lys Glu Glu Lys Thr Ile Lys Glu Gln Lys  
115 120 125

Lys Asn Asp Pro Cys Phe Leu Lys Arg Leu Leu Arg Glu Ile Lys Thr  
130 135 140

Cys Trp Asn Lys Ile Leu Lys Gly Ser Ile  
145 150